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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,265	05/17/2005	Kazuhiro Hattori	123935	3873
25944 Of the & Red	7590 10/16/2007 PIDGE PLC		EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 320850			OLSEN, ALLAN W	
ALEXANDRI.	A, VA 22320-4850	•	ART UNIT PAPER NUMBER	
			1792	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
	10/535,265	HATTORI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Allan Olsen	1763				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period versilized to reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 10 September 2007.						
<u>;=</u>	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	:х рапе Quayle, 1935 С.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-17 is/are pending in the application.  4a) Of the above claim(s) 16 and 17 is/are with  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-15 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or	drawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 17 May 2005 is/are: a)☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	<b>∆</b> □ <del> </del>	· (DTO 442)				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>May 17, 2005</u>.</li> </ol>	4) Interview Summar Paper No(s)/Mail [ 5) Notice of Informal 6) Other:	Pate				

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### **DETAILED ACTION**

### Election/Restrictions

Applicant's election with traverse of the Group I method claims in the reply filed on September 10, 2007 is acknowledged. The traversal is on the grounds that "the appropriate unity of invention standards have not been properly applied by the Patent Office". In response to the examiner's position that the claims do not share a "special technical feature because claim 1 fails to recite certain aspects of the invention that were identified in the specification as being the inventive feature, applicant responds that these aspects identified in the specification include at least "features in a technique for processing the continuous recording layer" and "techniques for processing those [the mask, resist, and continuous] layers" and applicant argues that a technique for processing the resist layer, mask layer and continuous recording layer are each clearly recited in claim 1.

This is not found persuasive because the technique for processing the resist layer, mask layer and continuous recording layer are each clearly recited in claim 1 does not constitute a novel or non-obvious method. The following rejections are provided In support of this position.

The requirement is still deemed proper and is therefore made FINAL.

Claims 16 and 17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. As noted above, applicant timely traversed the restriction (election) requirement in the reply filed on September 10, 2007.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 7, 8 and 10-15 are rejected under 35 U.S.C. 102(a) as being anticipated by US Patent Application Publication 2004/0191577 of Suwa et al. (hereinafter, Suwa)

Suwa teaches a method of etching a magnetic recording medium. Suwa teaches forming a multilayered mask comprising layers 24A, 34 and 36, overlying a continuous recording layer (32). Suwa teaches imprinting a concavo-convex pattern into the upper most masking layer (resist layer) and transferring the pattern through each successive layer and eventually etching the magnetic layer, thereby dividing the continuous magnetic layer into a number of divided recording elements (see figures 3-6 and [0073]). Suwa teaches removing the resist layer before the continuous recording layer processing step [0074]. Suwa teaches forming mask layer (34) as thin as 100 and forming magnetic recording layer (32) up to 300 thick [0071]. Suwa teaches that a portion of mask layer (34) remains after the magnetic recoding layer is etched (see fig. 6). Suwa teaches forming a masking layer from diamond like carbon (DLC), having a

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lower etching rate in the continuous recording layer processing step than that of the continuous recording layer.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suwa, as applied above, in view of US Patent 6,884,630 issued to Gupta et al. (hereinafter, Gupta).

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Suwa does not teach removing the resist layer and processing the first mask layer (24A) by employing reactive ion etching which uses one of oxygen and ozone as a reactive gas.

Gupta teaches removing DLC by employing reactive ion etching which uses one of oxygen and ozone as a reactive gas.

It would have been obvious to one skilled in the art to remove Suwa's DLC layer with an oxygen RIE plasma because Gupta teaches that DLC readily etched with an oxygen plasma and it does so with out leaving any residue.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Olsen whose telephone number is 571-272-1441. The examiner can normally be reached on M, W and F: 1-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571-272-1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Allan Olsen
Primary Examiner
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